

## AMENDMENTS TO THE CLAIMS

### **1-20. (Cancelled)**

**21. (Currently Amended)** A method of manufacturing a plasma display panel (PDP) comprising a process of forming a metal oxide film made from magnesium oxide onto a substrate of the plasma display panel, the process of forming the metal oxide film comprising:

controlling a degree of vacuum and a partial pressure of a predetermined gas in a deposition room within a certain range;

introducing oxygen gas into the deposition room and controlling a partial pressure of the oxygen gas within a range from  $3 \times 10^{-3}$  Pa to  $3 \times 10^{-2}$  Pa, so as to suppress oxygen deficiency in the metal oxide film; and

introducing another gas to increase oxygen deficiency in the metal oxide film, the another gas including at least one gas selected from the group consisting of ~~water vapor, hydrogen,~~ carbon monoxide[[,]] and carbon dioxide into the deposition room;

~~wherein when the another gas includes water vapor, controlling a partial pressure of the water vapor within a range from  $1 \times 10^{-4}$  Pa to  $1 \times 10^{-3}$  Pa,~~

~~wherein when the another gas includes hydrogen, controlling a partial pressure of the hydrogen within a range from  $1 \times 10^{-3}$  Pa to  $5 \times 10^{-2}$  Pa,~~

wherein when the another gas includes carbon monoxide, controlling a partial pressure of the carbon monoxide within a range from  $1 \times 10^{-3}$  Pa to  $5 \times 10^{-2}$  Pa, and

wherein when the another gas includes carbon dioxide, controlling a partial pressure of the carbon dioxide within a range from  $1 \times 10^{-4}$  Pa to  $3 \times 10^{-3}$  Pa.

### **22 - 26. (Cancelled)**

**27. (Currently Amended)** An apparatus for manufacturing a plasma display panel (PDP) for forming a metal oxide film onto a substrate of the PDP, said apparatus comprising:

a deposition room;

a gas-introducing means for introducing a first gas containing oxygen gas to suppress oxygen deficiency in the metal oxide film and a second gas to increase oxygen deficiency in the

metal oxide film, the second gas including at least one gas selected from the group consisting of ~~water vapor, hydrogen,~~ carbon monoxide[[,]] and carbon dioxide into the deposition room;

an exhausting means for exhausting the deposition room;

a partial-pressure detecting means for independently detecting a partial pressure of the first gas and the at least one gas of the second gas in the deposition room;

a degree of vacuum detecting means for detecting a degree of vacuum in the deposition room; and

a control means for controlling an amount of the first gas and the second gas to be introduced into the deposition room and an amount of evacuation from the deposition room based on information supplied from the partial-pressure detecting means and information supplied from the degree of vacuum detecting means such that the partial pressure of the first gas and the second gas is within a controlled range; and

the degree of vacuum in the deposition room can fall within a given range.

**28. (Cancelled)**